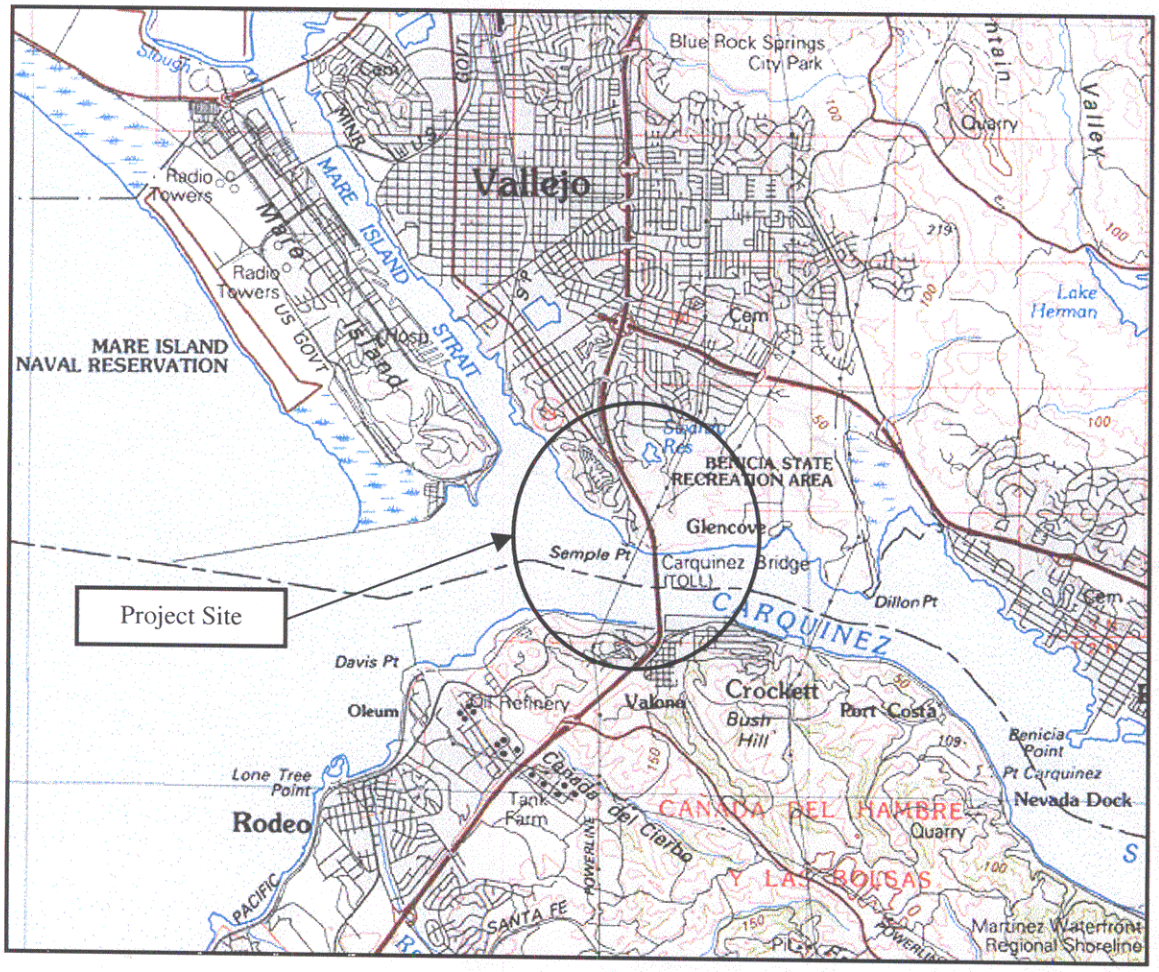
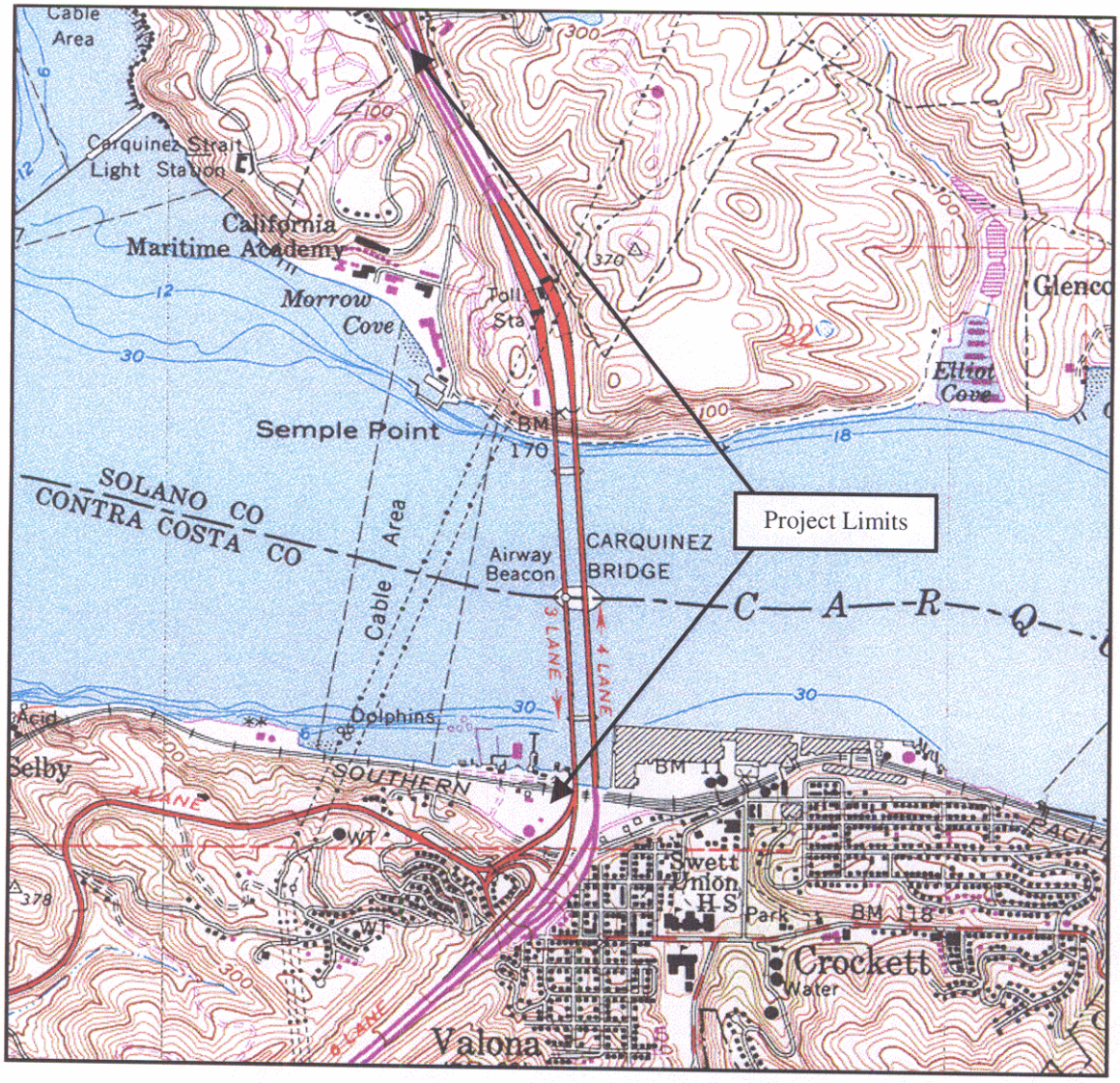
ATTACHMENT A

Vicinity and Topography Map



Vicinity Map and Project Site



Project Limits and Topography Map

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	CC Sol	80	22.0/22.7 0.0/1.8		

STATE OF CALIFORNIA

DEPARTMENT OF TRANSPORTATION

PROJECT PLANS FOR CONSTRUCTION ON

STATE HIGHWAY

IN CONTRA COSTA AND SOLANO COUNTIES AT CROCKETT AND IN VALLEJO ON ROUTE 80 FROM 1.1 km SOUTH OF U.P.R.R OVERCROSSING TO 0.4 km NORTH OF ROUTE 80/29 SEPARATION

To be supplemented by Standard Plans dated July, 1997

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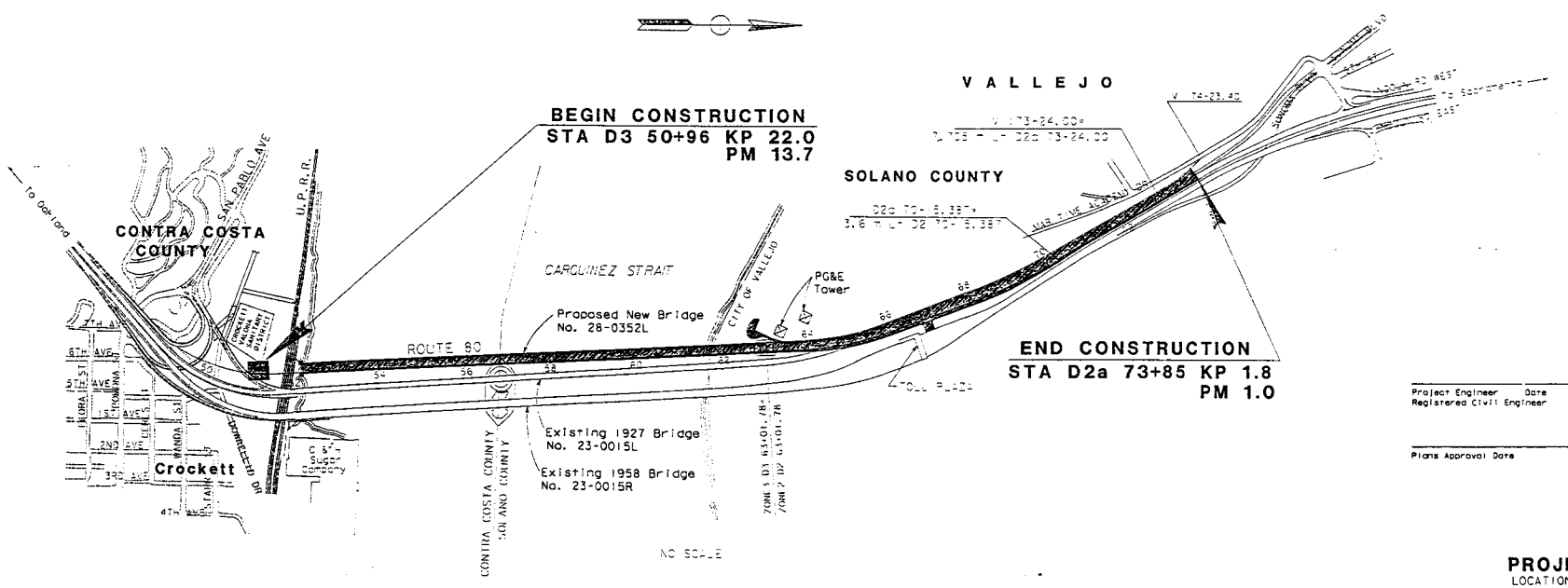

Caltrans Metric

Project Engineer Date
Registered Civil Engineer

Plans Approval Date

REGISTERED PROFESSIONAL ENGINEER — No. — Exp. — CIVIL — STATE OF CALIFORNIA

PROJECT
LOCATION MAP

DATE PLOTTED => $DATE
TIME PLOTTED => $TIME
LAST REVISION

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

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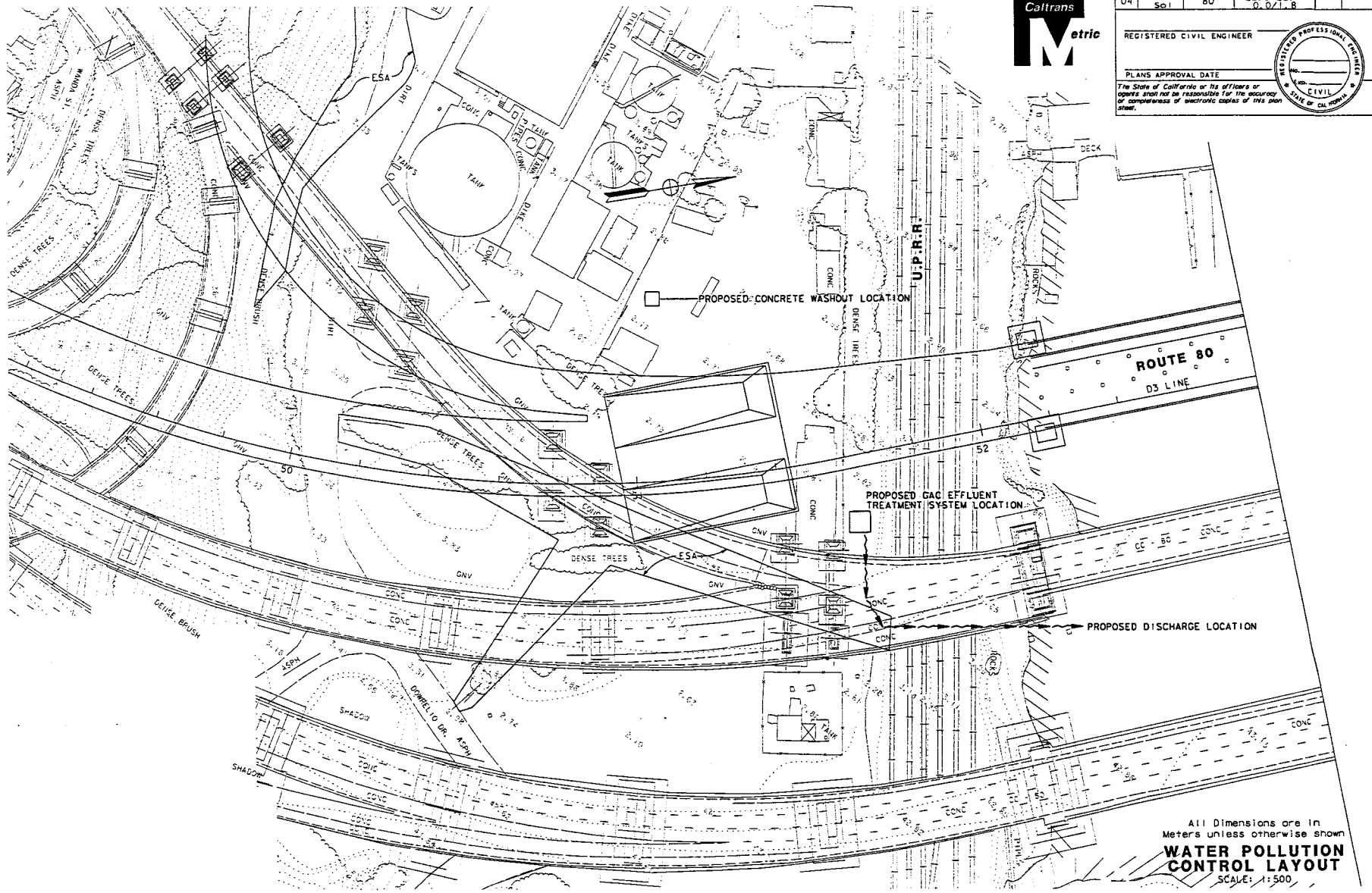
DGN FILE => $REQUEST

CU 04252

EA 013031

ATTACHMENT B

Water Pollution Control Drawings



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	CC SOL	80	22.0/22.7 0.0/1.8		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER — CIVIL — STATE OF CALIFORNIA

Caltrans Metric

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

PROJECT ENGINEER

CALCULATED/ DESIGNED BY

CHECKED BY

DATE | REVISED BY | DATE REVISED

B-1

LAST REVISION 00-00-00 | DATE PLOTTED => $DATE | TIME PLOTTED => $TIME

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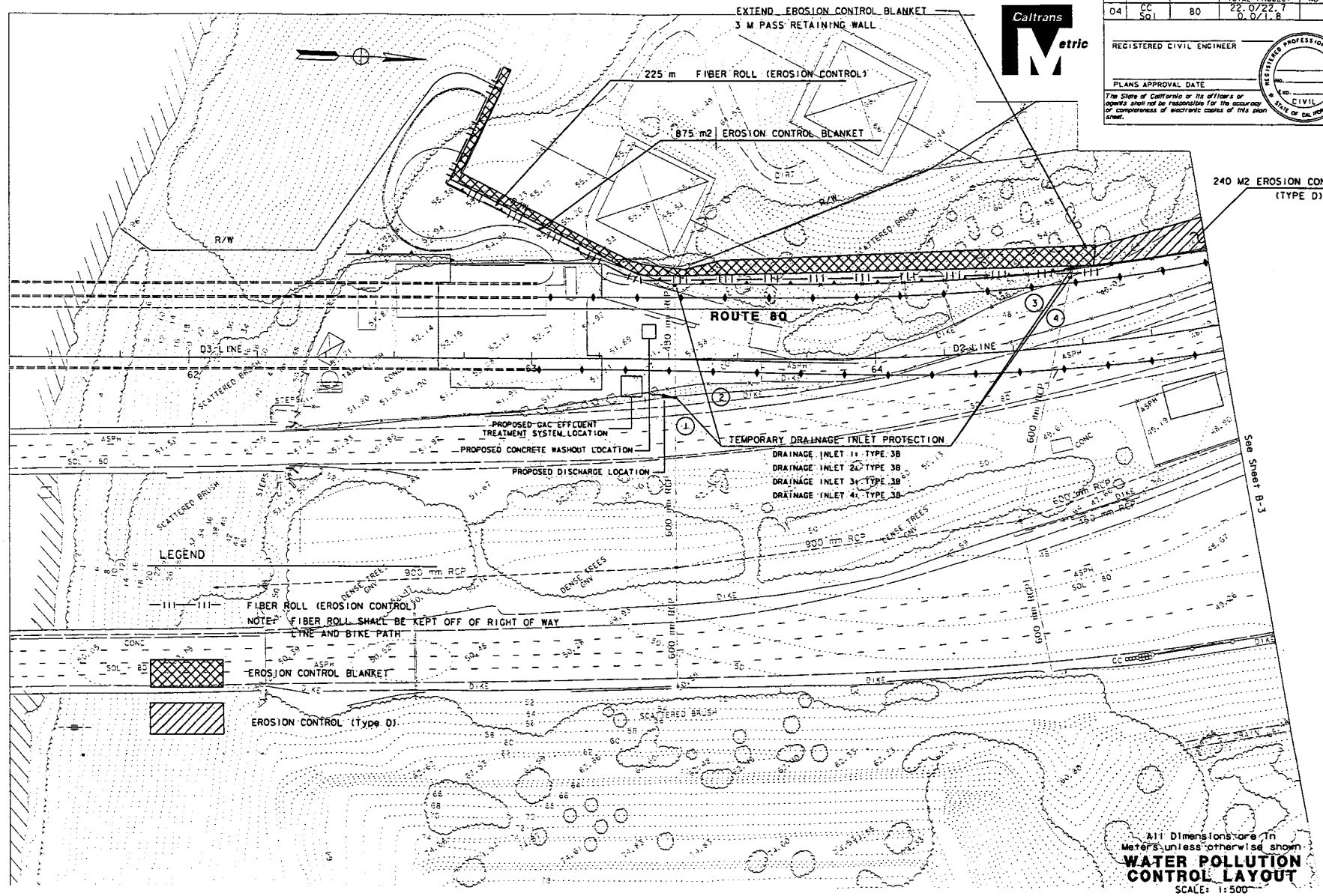
CU 04252

EA 013011



Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	CC SOL	80	22.0/22.7 0.0/1.8		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER — NO. — CIVIL — STATE OF CALIFORNIA

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WATER POLLUTION CONTROL LAYOUT

SCALE: 1:500

B-2

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PROJECT ENGINEER		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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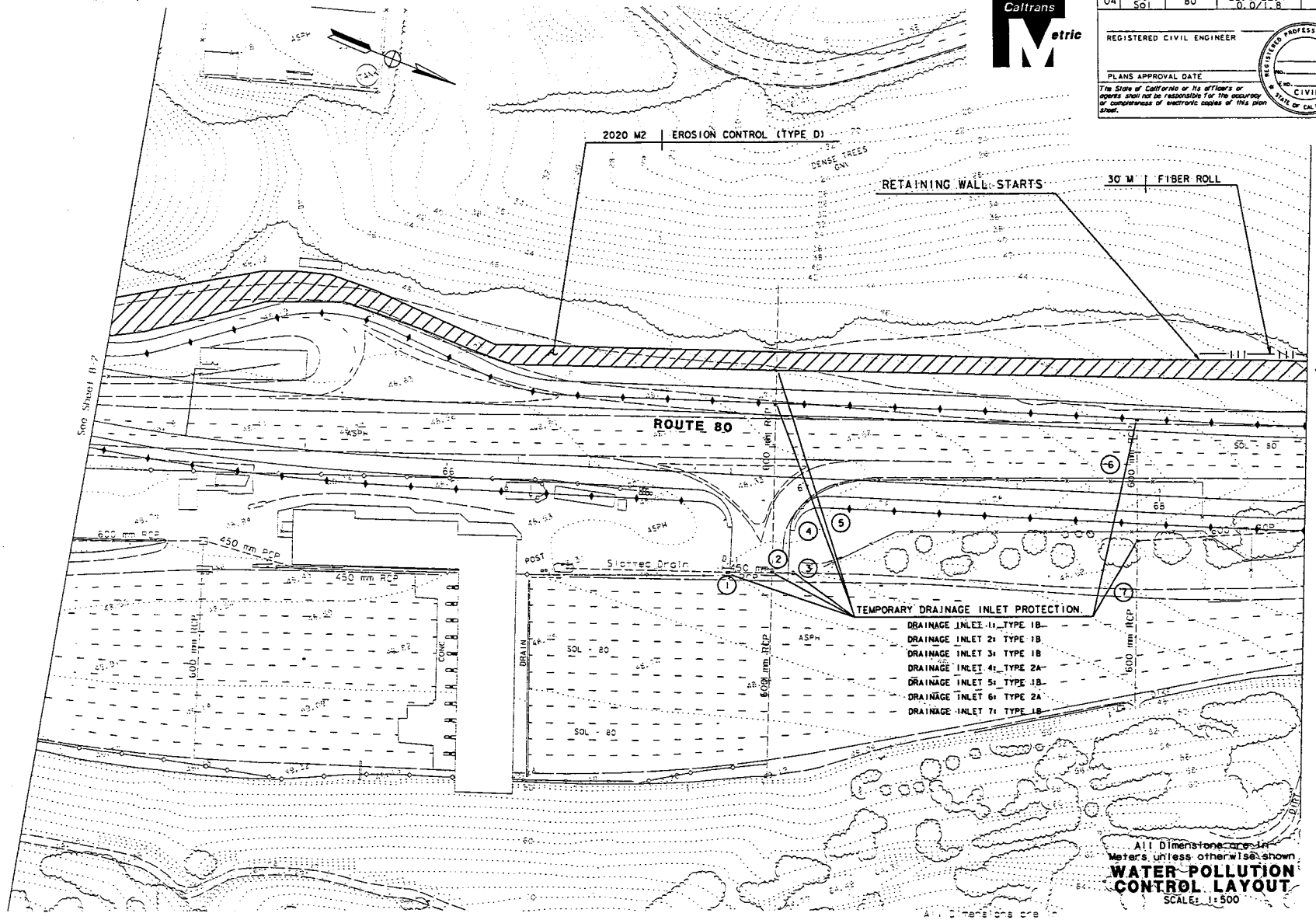
CU 04252

EA 013011



Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	CC SOL	80	22.0/22.7 0.0/1.8		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER — CIVIL — STATE OF CALIFORNIA

DATE	REVISED BY	DATE REVISED

CALCULATED/ DESIGNED BY

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PROJECT ENGINEER

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

All Dimensions are in Meters unless otherwise shown

WATER POLLUTION CONTROL LAYOUT

SCALE: 1:500

B-3

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DD MM YY	TIME PLOTTED => $TIME

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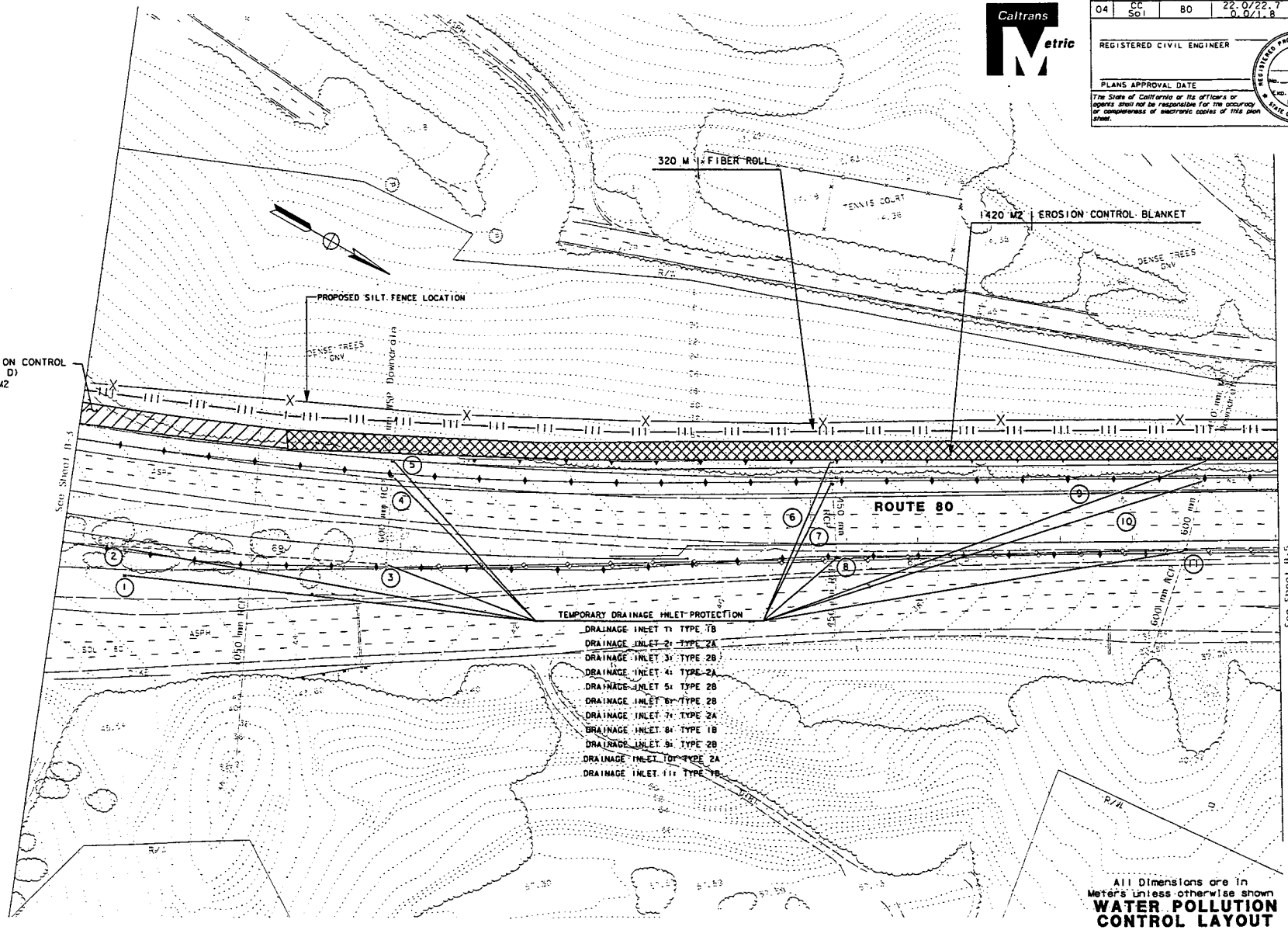
CU 04252

EA 013011



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	CC SOI	80	22.0/22.7 0.0/1.8		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER — CIVIL — STATE OF CALIFORNIA

Caltrans Metric

All Dimensions are in Meters unless otherwise shown

WATER POLLUTION CONTROL LAYOUT

SCALE: 1:500

B-4

DATE	REVISED BY
	DATE REVISED

CALCULATED/ DESIGNED BY

CHECKED BY

PROJECT ENGINEER

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

Caltrans

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

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DGN FILE => $REQUEST

CU 04252

EA 013011

USER ID/ISSUE DATE, PLOTTED => $DATE
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DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	CC Sol	80	22.0/22.7 0.0/1.8		

REGISTERED CIVIL ENGINEER

PLANS APPROVAL DATE

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Caltrans Metric

PROPOSED SILT FENCE LOCATION

250 M | FIBER ROLL

1240 M2 | EROSION CONTROL (TYPE D)

90 M Fiber Roll

725 m2 | EROSION CONTROL (TYPE D)

ROUTE 80

22a LINE

TEMPORARY DRAINAGE INLET PROTECTION

DRAINAGE INLET 1: TYPE 1B

DRAINAGE INLET 2: TYPE 1A

DRAINAGE INLET 3: TYPE 2B

DRAINAGE INLET 4: TYPE 1B

See Sheet B 4

All Dimensions are in Meters unless otherwise shown

WATER POLLUTION CONTROL LAYOUT

SCALE: 1:500

B-5

DATE	REVISED BY	DATE REVISED
CALCULATED/ DESIGNED BY		
CHECKED BY		
PROJECT ENGINEER		

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION

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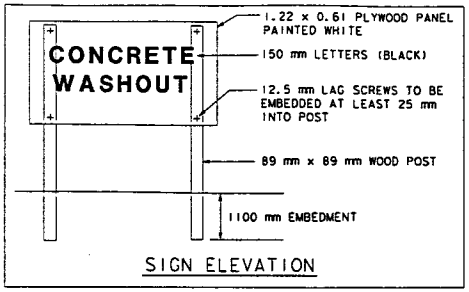
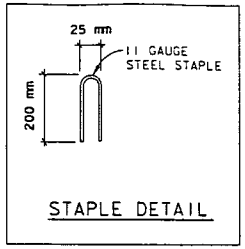


SIGN ELEVATION



STAPLE DETAIL

NOTES:

1. Ultimate washout size determined by amount of concrete required for project area and/ or pour location.
2. The concrete washout sign shall be installed within 10 meters of the temporary concrete washout.

Caltrans Metric

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	CC Sol	80	20.4/22.7 0.0/3.5		

Robert B. Schott
LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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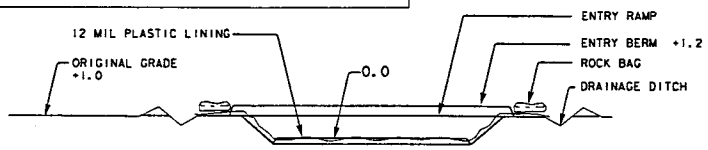
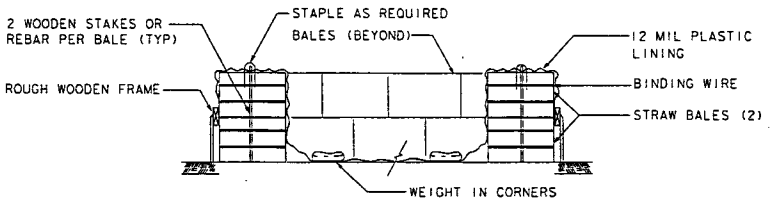


SECTION A-A



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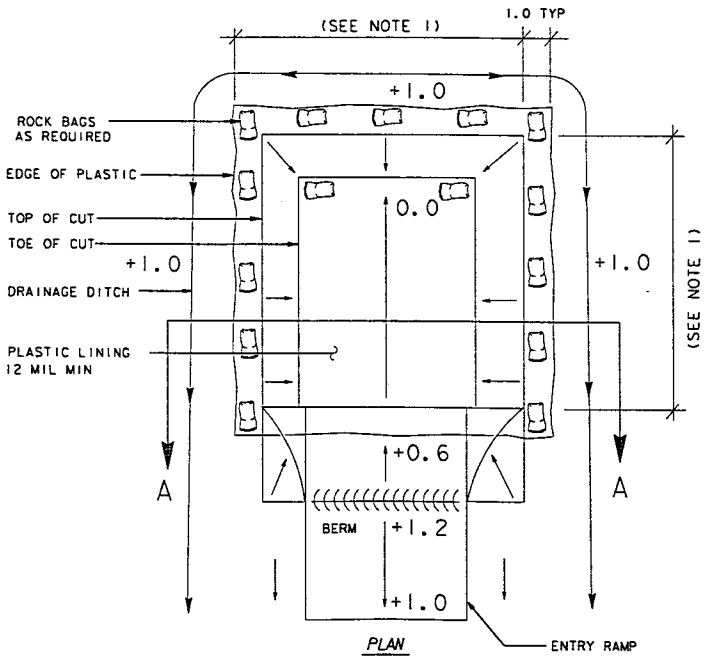
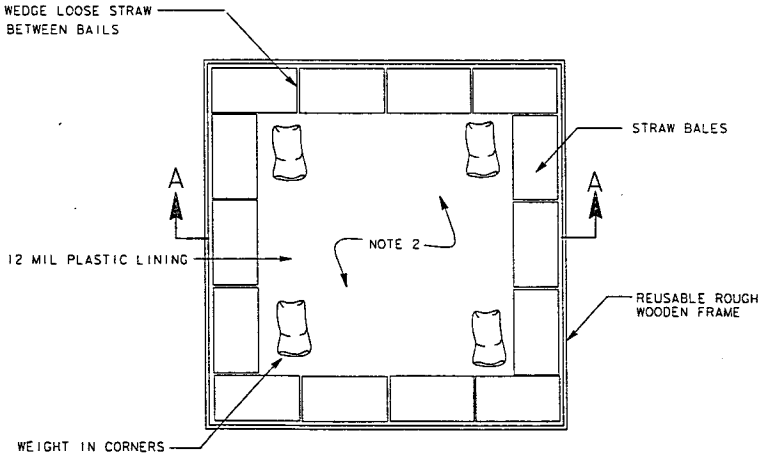


PLAN

TEMPORARY CONCRETE WASHOUT
(Below Grade)



PLAN

TEMPORARY CONCRETE WASHOUT
(Above Grade)

All dimensions are in meters unless otherwise shown.

CONSTRUCTION DETAILS

WATER POLLUTION CONTROL

NO SCALE

B-6

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE
PROJECT LANDSCAPE ARCHITECT: ROBERT B. SCHOTT
CALCULATED/ DESIGNED BY
CHECKED BY
DATE
REVISED BY
DATE REVISED

LAST REVISION 00-00-00
TIME PLOTTED -> $$$$$$$SYSTIME$$$$$$

FOR REDUCED PLANS ORIGINAL 0 20 40 60 80
SCALE IS IN MILLIMETERS

USERNAME -> $$$$$$USER$$$$$$
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CU 04340
EA 013011

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	CC Sol	80	20.4/22.7 0.0/3.5		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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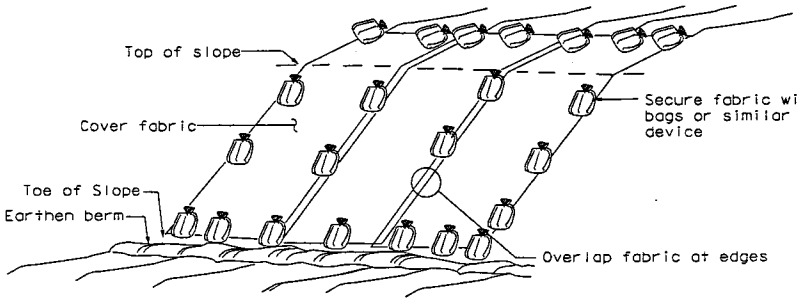
Caltrans Metric



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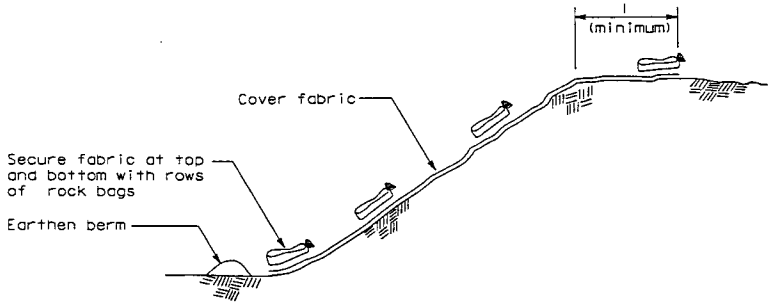
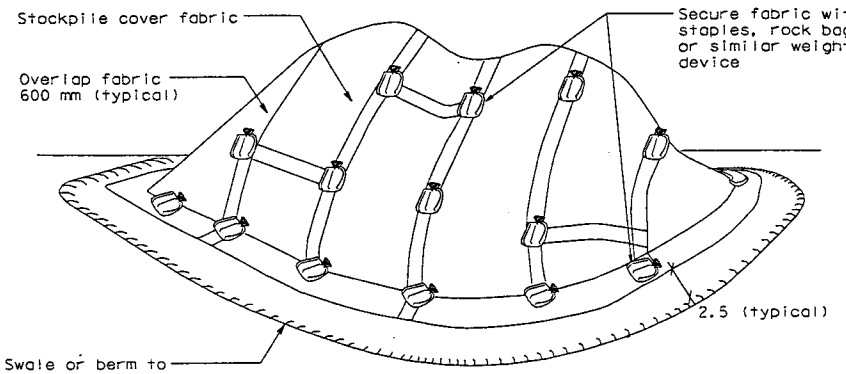


SECTION

TEMPORARY COVER on SLOPE



PERSPECTIVE

TEMPORARY COVER on STOCKPILE

CONSTRUCTION DETAILS

WATER POLLUTION CONTROL

NO SCALE

B-7

All dimensions are in meters unless otherwise shown.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

PROJECT LANDSCAPE ARCHITECT: ROBERT B. SCHOTT

CALCULATED/ DESIGNED BY

CHECKED BY

DATE | REVISED BY | DATE REVISED

LAST REVISION 07-09-97

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DGN FILE => BREQUEST

CU 04340

EA 013011

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	CC SOI	80	22.0/22.7 0.0/1.8		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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LICENSED LANDSCAPE ARCHITECT — SIGNATURE — Renewal date — Date — STATE OF CALIFORNIA

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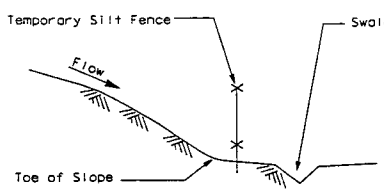
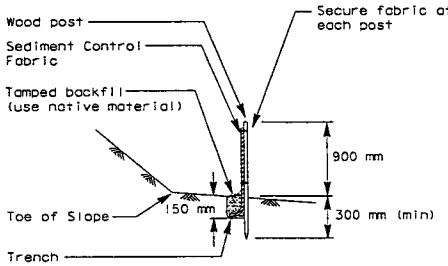


SECTION

TEMPORARY SILT FENCE
at SWALE

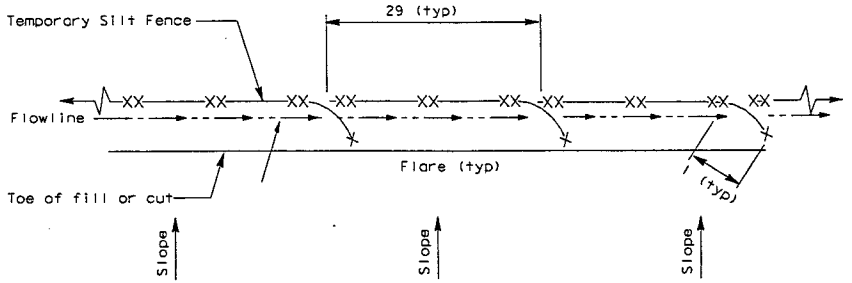


SECTION

TEMPORARY SILT FENCE

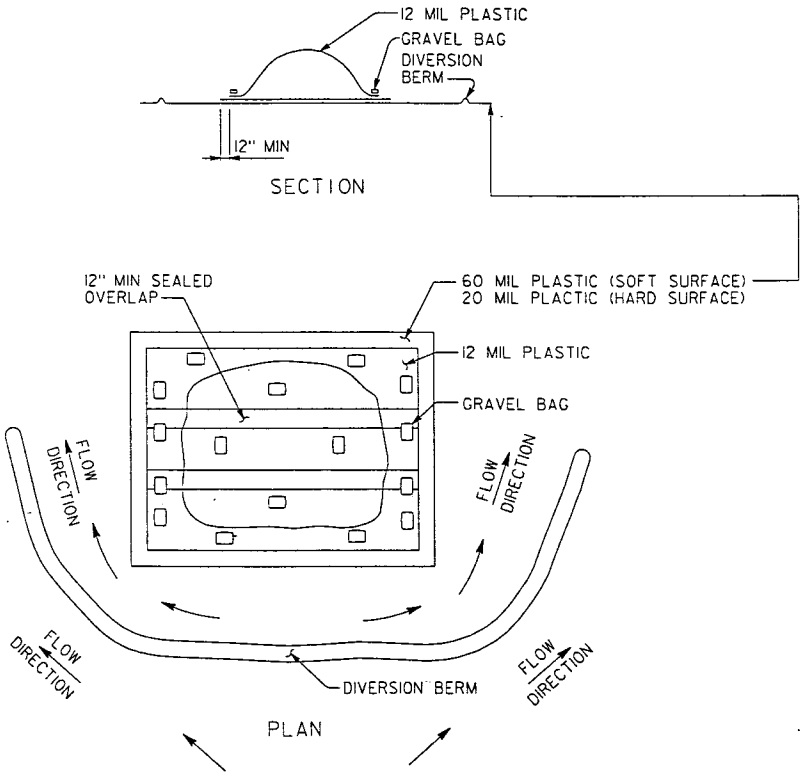
NOTES:

1. Install temporary silt fence by first digging trench, driving post, place and secure fabric, backfill and tamp.
2. Dimensions may vary to match field conditions



PLAN

TEMPORARY SILT FENCE
AT TOE OF SLOPE



HAZARDOUS SOIL TEMPORARY STOCKPILE

CONSTRUCTION DETAILS
WATER POLLUTION CONTROL

NO SCALE

B-8

All dimensions are in meters unless otherwise shown.

REVISED BY	DATE	CALCULATED/ DESIGNED BY
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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
PROJECT LANDSCAPE ARCHITECT
Caltrans

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CU 04340

EA 013011

LAST REVISION

TIME PLOTTED => $$$$$$SYSTIME$$$$$$

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	CC SOL	80	20.4/22.7 0.0/3.5		

Caltrans Metric

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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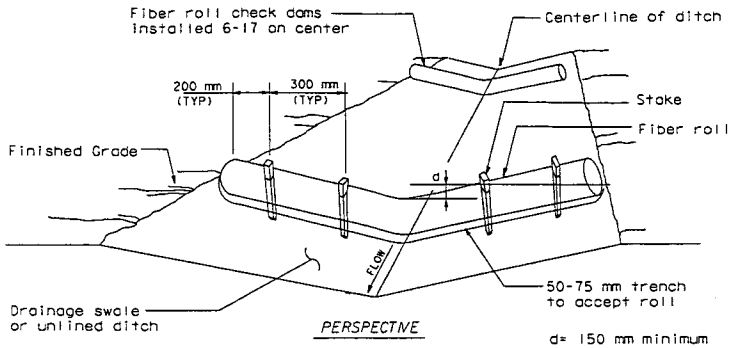
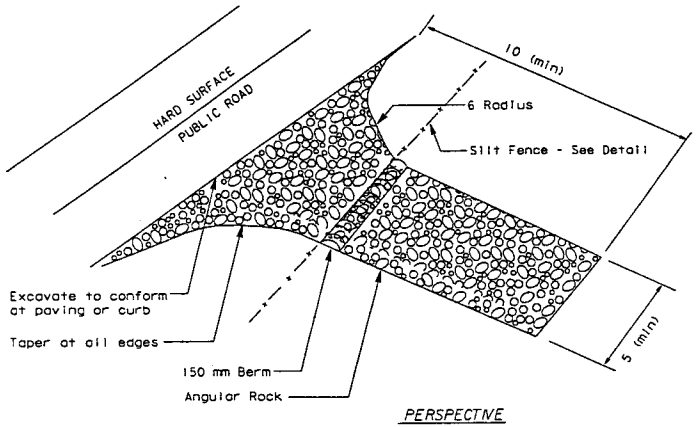
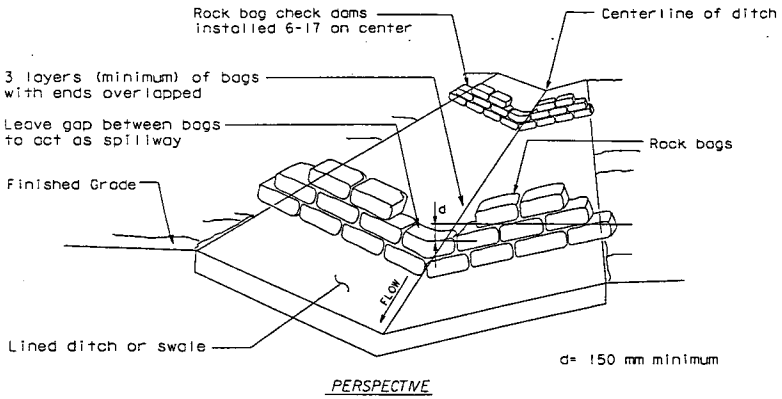


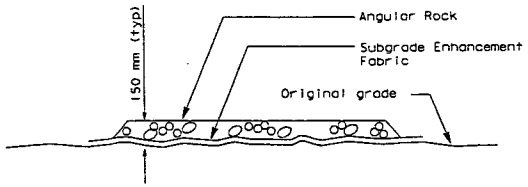
FIBER ROLL CHECK DAM
in UNLINED DITCH



TEMPORARY CONSTRUCTION ROAD
ENTRANCE/EXIT



ROCK BAG CHECK DAM
in LINED DITCH



TEMPORARY CONSTRUCTION ROAD

All dimensions are in meters unless otherwise shown.

CONSTRUCTION DETAILS
WATER POLLUTION CONTROL

NO SCALE

B-9

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

PROJECT LANDSCAPE ARCHITECT: ROBERT B. SCHOTT

CALCULATED/DESIGNED BY
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DATE	REVISED BY	DATE REVISED

LAST REVISION 00-00-00

TIME PLOTTED => $$$$$$$SYSTIME$$$$$$$

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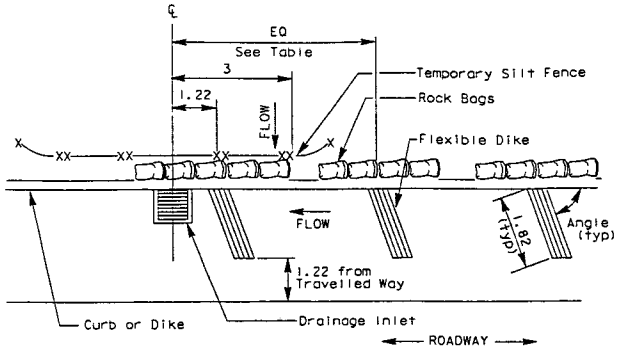
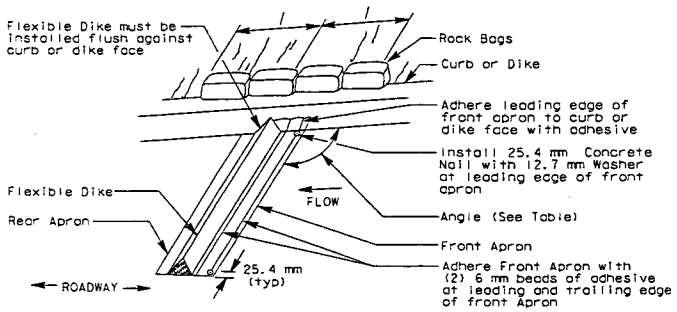
CU 04340

EA 013011



PLAN



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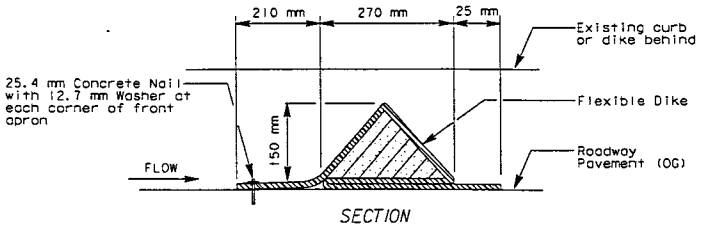


SECTION

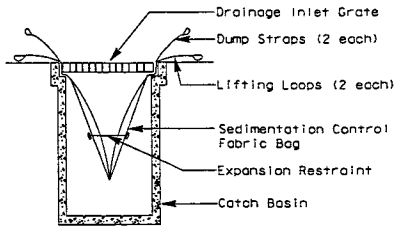
TEMPORARY FLEXIBLE DIKE

SLOPE OF ROADWAY	1%	2%	3%	4%	5%
METERS BETWEEN BARRIERS	15.24	10.67	9.14	7.62	6.10
ANGLE FROM FACE OF CURB	70°	70°	70°	45°	45°
SUGGESTED BARRIER LENGTH	1.82	1.82	1.82	1.82	1.82

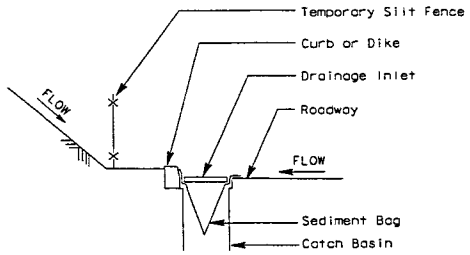
NOTES:

1. Flexible dike shall be trimmed to the appropriate angle as shown in the table.
2. Install a minimum of 3 flexible dikes upstream of each drainage inlet to be protected.

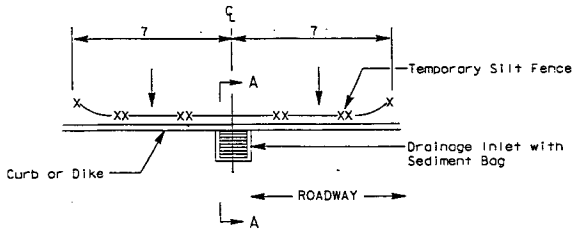
TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3a)
for paved areas exposed to traffic



SEDIMENT BAG DETAIL



SECTION A-A



PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 3b)
for paved areas exposed to traffic

All dimensions are in meters unless otherwise shown.

CONSTRUCTION DETAILS
WATER POLLUTION CONTROL

NO SCALE

B-10

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	CC Sol	80	20.4/22.7 0.0/3.5		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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LICENSED LANDSCAPE ARCHITECT — Signature 11-30-00 — STATE OF CALIFORNIA

Caltrans Metric

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

PROJECT LANDSCAPE ARCHITECT: ROBERT B. SCHOTT

CALCULATED/DESIGNED BY | CHECKED BY

DATE | REVISED BY | DATE REVISED

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

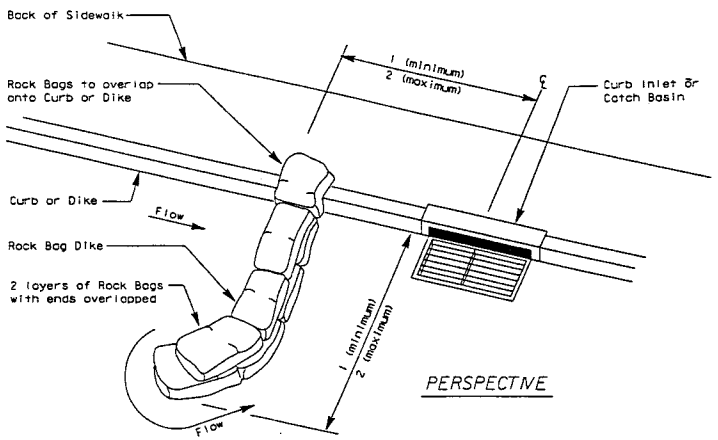
USERNAME => $$$$$$USER$$$$$$
DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 04340

EA 0013011

LAST REVISION 12-22-98

TIME PLOTTED => $$$$$$SYSTIME$$$$$$



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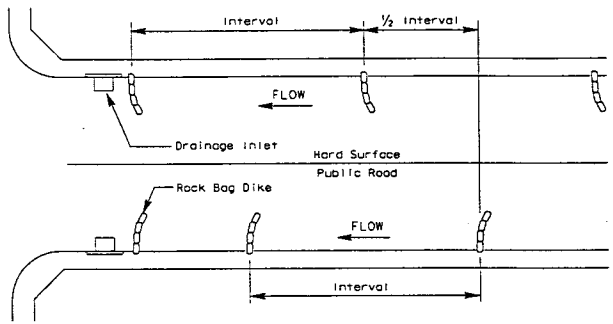


PLAN

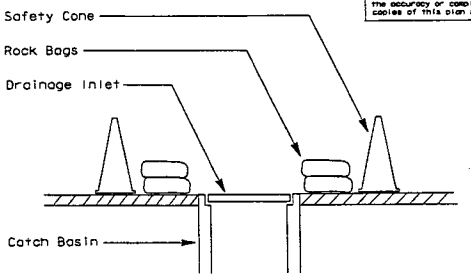
ROCK BAG DIKE SPACING

SLOPE OF ROADWAY	INTERVAL
10% or More	4.0 meters
9.9% to 8.0%	7.5 meters
7.9% to 6.0%	15.0 meters
5.9% to 4.0%	22.5 meters
3.9% to 1.0%	30.0 mefers
1.0% or Less	Only if erosion is prevalent

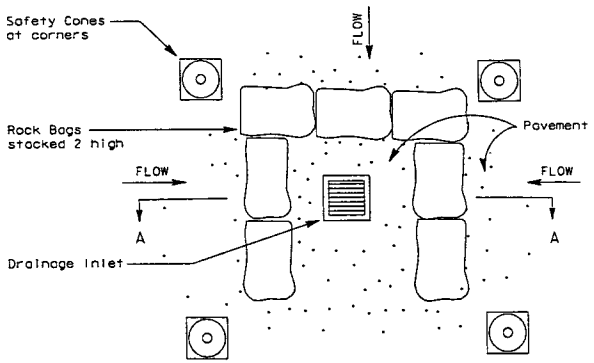
NOTES:

1. Construct on gently sloping streets where water can pond and allow sediment to separate out of suspension.
2. Place 2 layers of rock bags. Overlap bags and pack tightly together to eliminate gaps.
3. Inspect and repair rock bag dikes after each storm event. Remove sediment before it reaches top of curb or rock bags.
4. Install a minimum of 3 rock bag dikes upstream of each drainage inlet to be protevted.

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 2a)
for paved areas not exposed to traffic



SECTION A-A



PLAN

TEMPORARY DRAINAGE INLET PROTECTION (TYPE 2b)
for paved areas not exposed to traffic

All dimensions are in meters unless otherwise shown.

CONSTRUCTION DETAILS
WATER POLLUTION CONTROL

NO SCALE

B-11

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	CC SOI	80	20.4/22.7 0.0/3.5		

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

LICENSED LANDSCAPE ARCHITECT ROBERT B. SCHOTT 11-30-00 STATE OF CALIFORNIA

DATE	REVISED BY
	DATE REVISED

CALCULATED/DESIGNED BY

CHECKED BY

PROJECT LANDSCAPE ARCHITECT
ROBERT B. SCHOTT

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

LAST REVISION 12-23-98

TIME PLOTTED => sssssssSYTIMEssssss

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

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DGN FILE => sssssssssssDGNSPECssssssssss

CU 04340

EA 013011

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	CC Sol	80	20.4/22.7 0.0/3.5		

Caltrans Metric

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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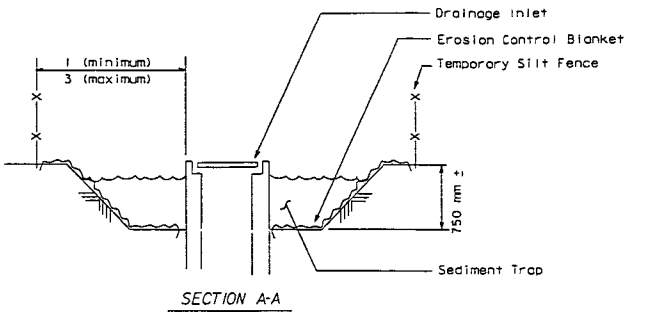
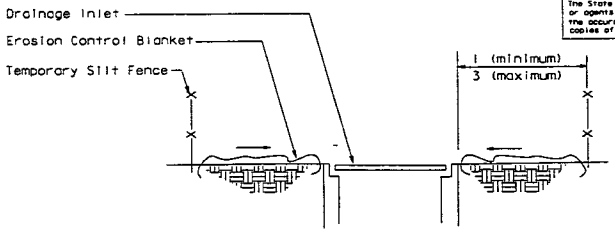
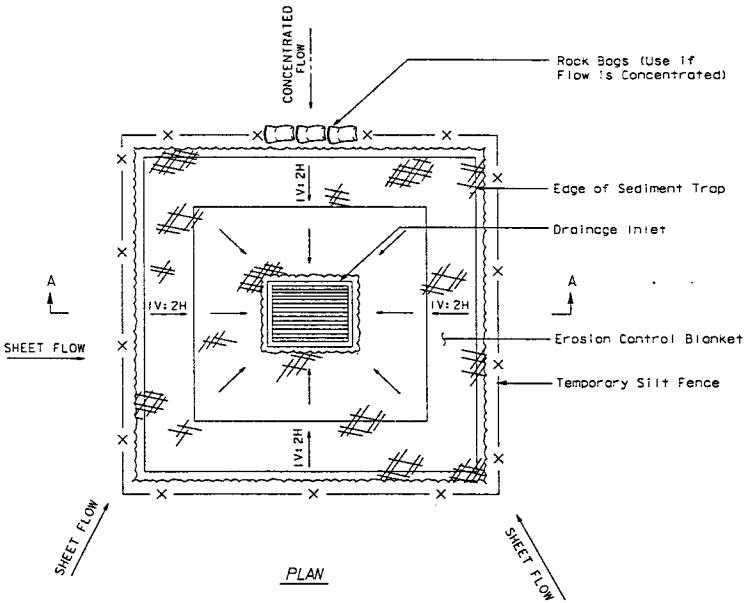


SECTION A-A

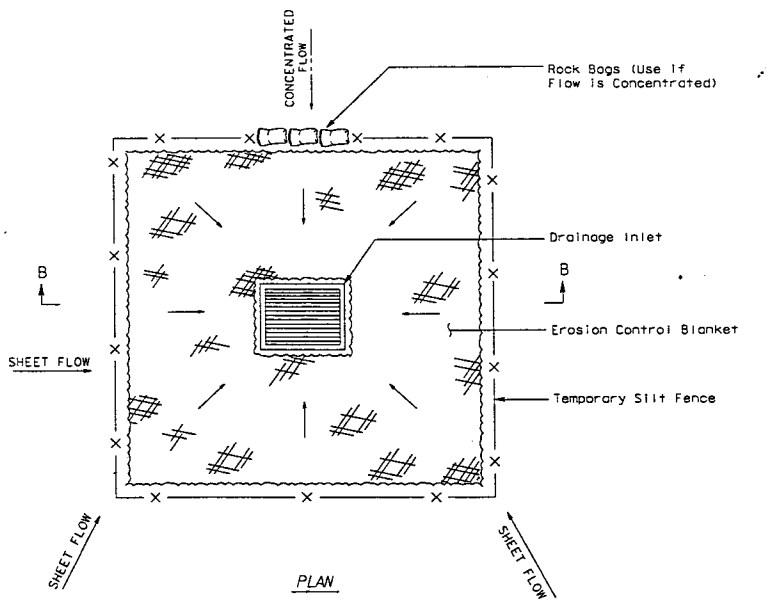


SECTION B-B



PLAN

TEMPORARY DRAINAGE INLET PROTECTION (Type IA)
(For areas with Active Grading or Clearing and Grubbing)



PLAN

TEMPORARY DRAINAGE INLET PROTECTION (Type IB)
(For areas where Finished Grade is established)

All dimensions are in meters unless otherwise shown.

CONSTRUCTION DETAILS
WATER POLLUTION CONTROL
NO SCALE
B-12

LAST REVISED 00-00-00

TIME PLOTTED => $$$$$$$SYSTIME$$$$$$$

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans LANDSCAPE ARCHITECTURE

DATE	REVISED BY / DATE REVISED

PROJECT LANDSCAPE ARCHITECT: ROBERT B. SCHOTT
CALCULATED/DESIGNED BY:
CHECKED BY:

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

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DGN FILE => $$$$$$$$$$DGNSPEC$$$$$$$$$$

CU 04340 | EA 013031

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
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LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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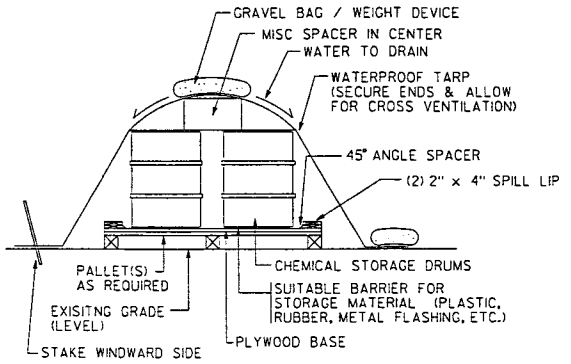
LICENSED LANDSCAPE ARCHITECT — STATE OF CALIFORNIA



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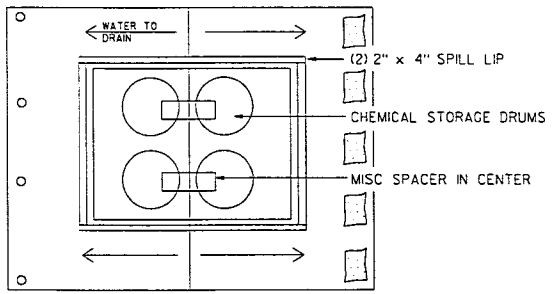
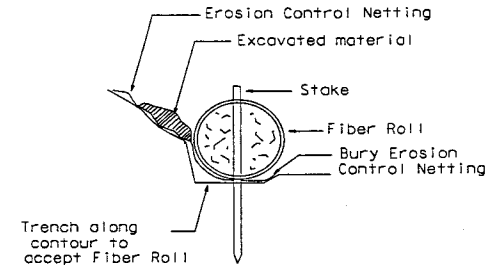


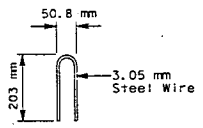
PLAN

CHEMICAL STORAGE



FIBER ROLL AT TOE OF SLOPE SECTION

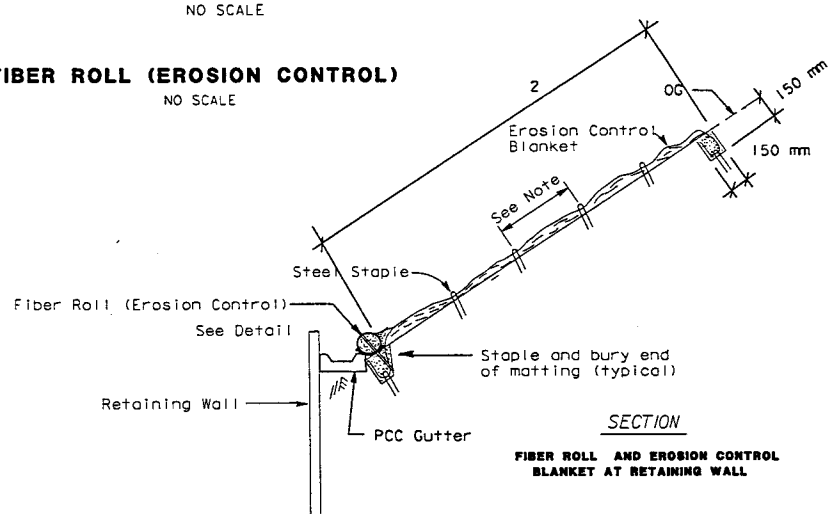
NO SCALE



STAPLE DETAIL

FIBER ROLL (EROSION CONTROL)

NO SCALE



SECTION

FIBER ROLL AND EROSION CONTROL BLANKET AT RETAINING WALL

All dimensions are in meters unless otherwise shown.

CONSTRUCTION DETAILS

WATER POLLUTION CONTROL

NO SCALE

B-13

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION — Caltrans

PROJECT LANDSCAPE ARCHITECT

CALCULATED/ DESIGNED BY

CHECKED BY

DATE REVISED BY

DATE REVISED

TIME PLOTTED => 88888SYSTIME88888

LAST REVISION

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME =>

DGN FILE =>

CU 04340

EA 0I3014

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
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Caltrans Metric

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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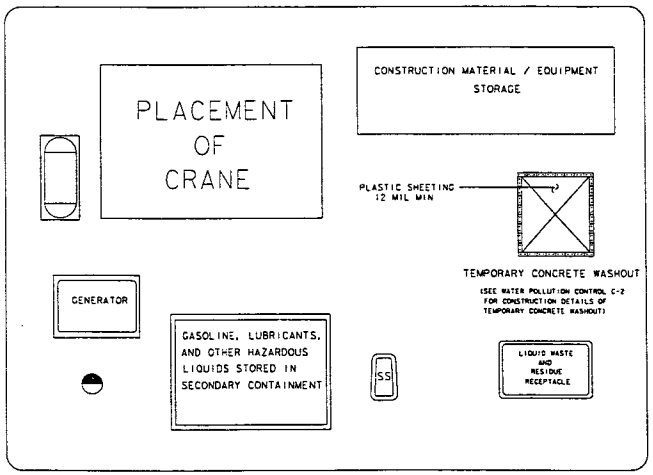
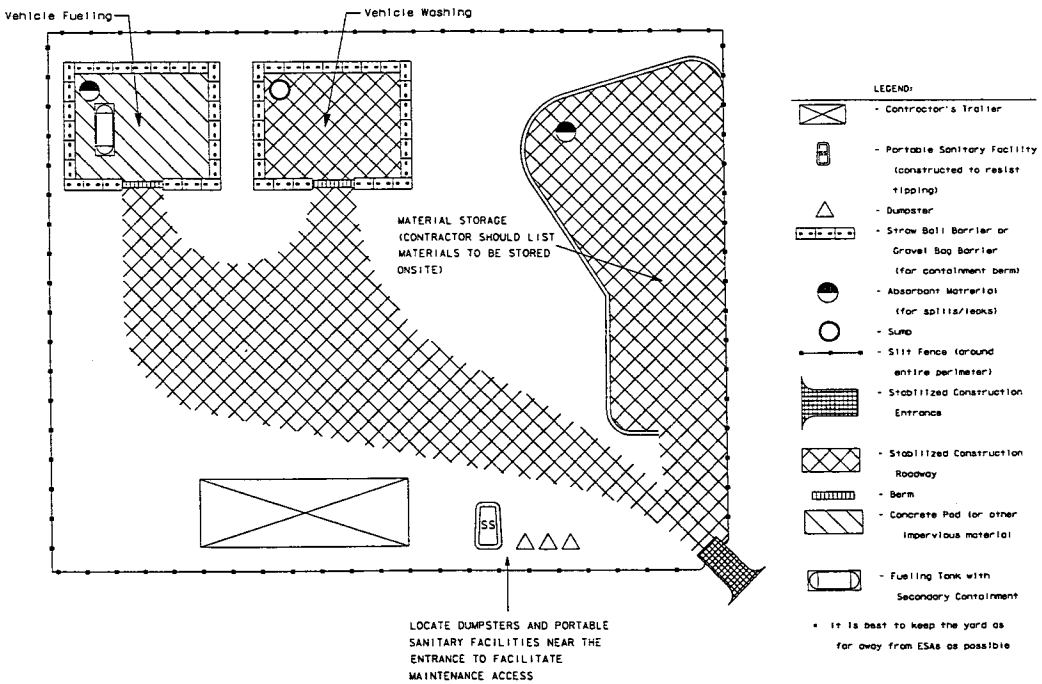
LICENSED LANDSCAPE ARCHITECT — Expiration Date — STATE OF CALIFORNIA

SAMPLE PLAN OF CONSTRUCTION STAGING AREA OF THE BARGE



SAMPLE CONTRACTOR'S CONSTRUCTION YARD



All dimensions are in meters unless otherwise shown.

CONSTRUCTION DETAILS
WATER POLLUTION CONTROL

NO SCALE

B-14

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION | PROJECT LANDSCAPE ARCHITECT | CALCULATED/DESIGNED BY | CHECKED BY | DATE | REVISED BY | DATE REVISED | LAST REVISION | TIME PLOTTED => 8/8/8/8/8SYSTIME/8/8/8/8/8

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

USERNAME =>
DGN FILE =>

CU 04340

EA 013011

DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	CC Sol	80	22.0/22.7 0.0/1.8		

Caltrans Metric

LICENSED LANDSCAPE ARCHITECT

PLANS APPROVAL DATE

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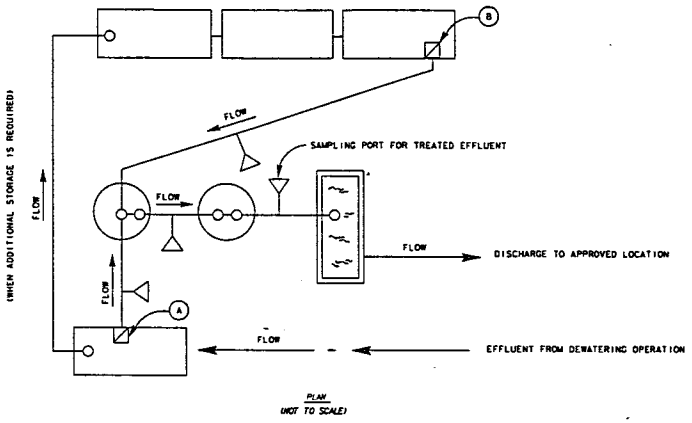
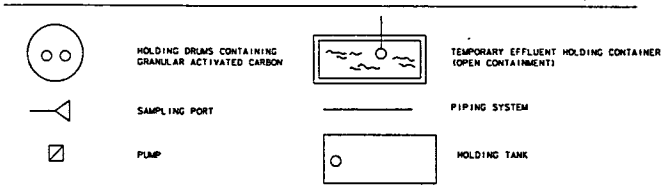
LICENSED LANDSCAPE ARCHITECT — SIGNATURE — RENEWAL DATE — STATE OF CALIFORNIA



PLAN
(NOT TO SCALE)

EFFLUENT TREATMENT SYSTEM

LEGEND



NOTES

1. FIELD CONDITIONS MAY WARRANT ARRANGING COMPONENTS OF THE EFFLUENT TREATMENT SYSTEM TO FIT THE IMMEDIATE WORK AREA.
2. OPERATION OF PUMP (A) OR (B) WILL BE DICTATED BY THE AMOUNT OF EFFLUENT ENCOUNTERED DURING DEWATERING OPERATIONS AND/OR THE AMOUNT OF SEDIMENT REMOVAL REQUIRED PRIOR TO TREATMENT.
3. PIPE SHALL BE SIZED ACCORDINGLY TO HANDLE A MINIMUM FLOW REQUIREMENT OF 318 L/min.

All dimensions are in meters unless otherwise shown.

CONSTRUCTION DETAILS
WATER POLLUTION CONTROL
NO SCALE

B-15

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans
PROJECT LANDSCAPE ARCHITECT
CALCULATED/ DESIGNED BY
CHECKED BY
DATE
REVISED BY
DATE REVISED
LAST REVISION
TIME PLOTTED => $$$$$$$SYSTIME$$$$$$$

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80
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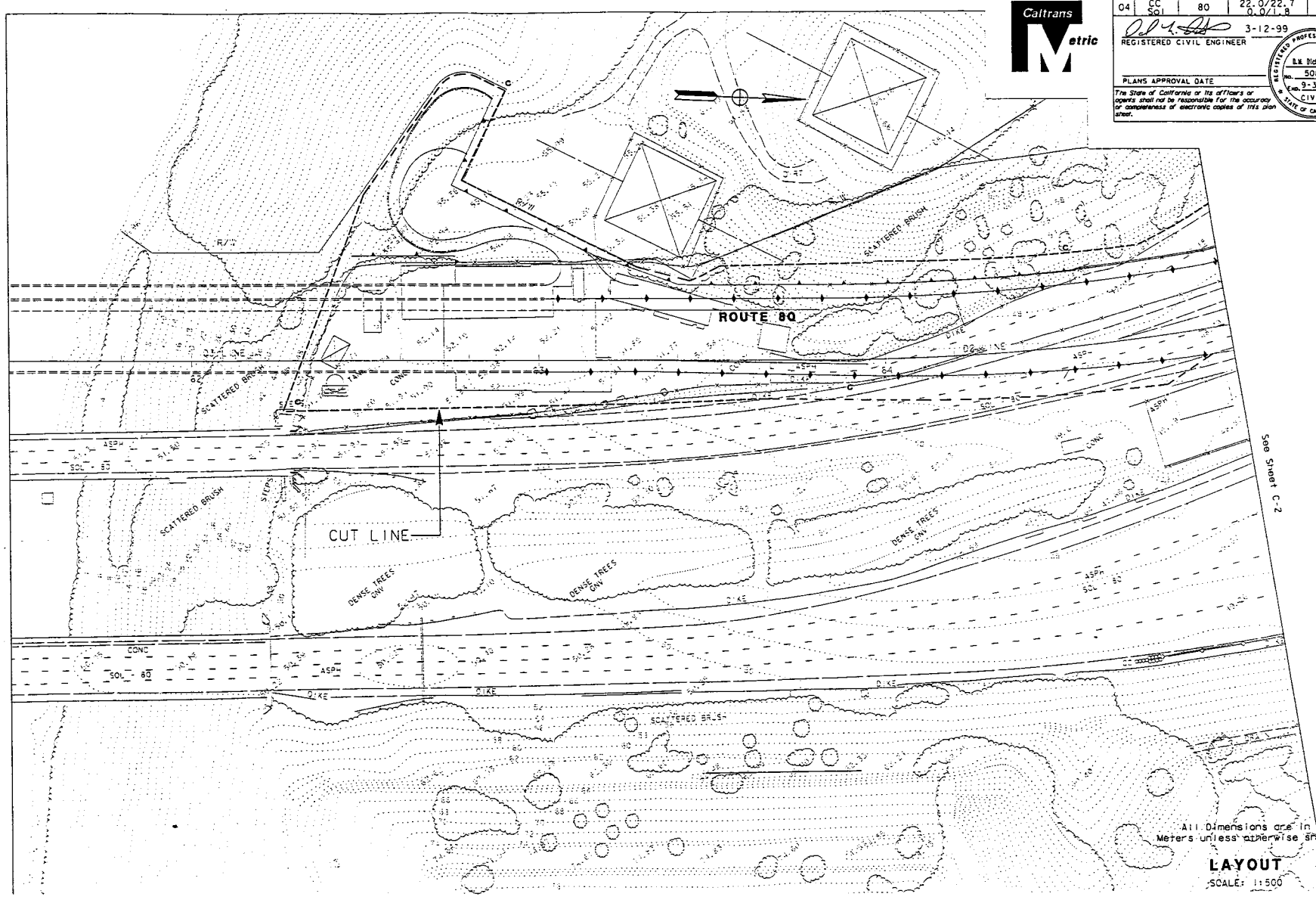
DGN FILE =>
CU 04340
EA 0013011

ATTACHMENT C

Cut and Fill Layout Plans



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET No	TOTAL SHEETS
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3-12-99
REGISTERED CIVIL ENGINEER

B.K. Dickinson No. 50815 Exp. 9-30-01 CIVIL

PLANS APPROVAL DATE

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Caltrans Metric

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

PROJECT ENGINEER

CALCULATED/ DESIGNED BY

CHECKED BY

DATE | REVISED BY | DATE REVISED

All Dimensions are in Meters unless otherwise shown

LAYOUT

SCALE: 1:500

C-1

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

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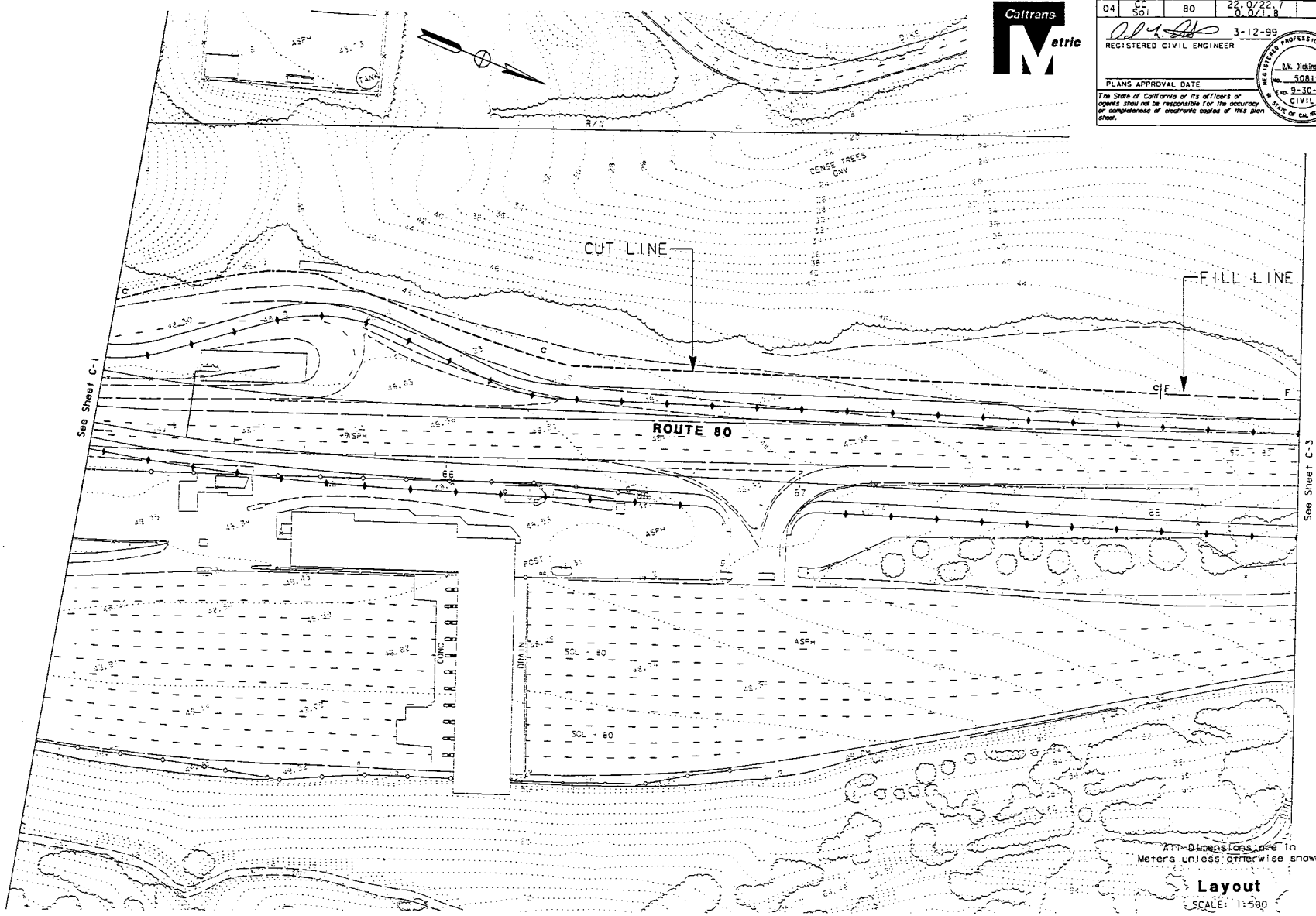
DGN FILE => $REQUEST

CU 04252

EA 0I3011

LAST REVISION 03-13-99 | DATE PLOTTED => $DATE | TIME PLOTTED => $TIME



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
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REGISTERED CIVIL ENGINEER — 3-12-99

PLANS APPROVAL DATE

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R.W. Dickinson
50815
exp. 9-30-01
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA

Caltrans Metric

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

PROJECT ENGINEER

CALCULATED/ DESIGNED BY

CHECKED BY

DATE	REVISED BY	DATE REVISED

C-2

LAST REVISION 03-13-99
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TIME PLOTTED => $TIME

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

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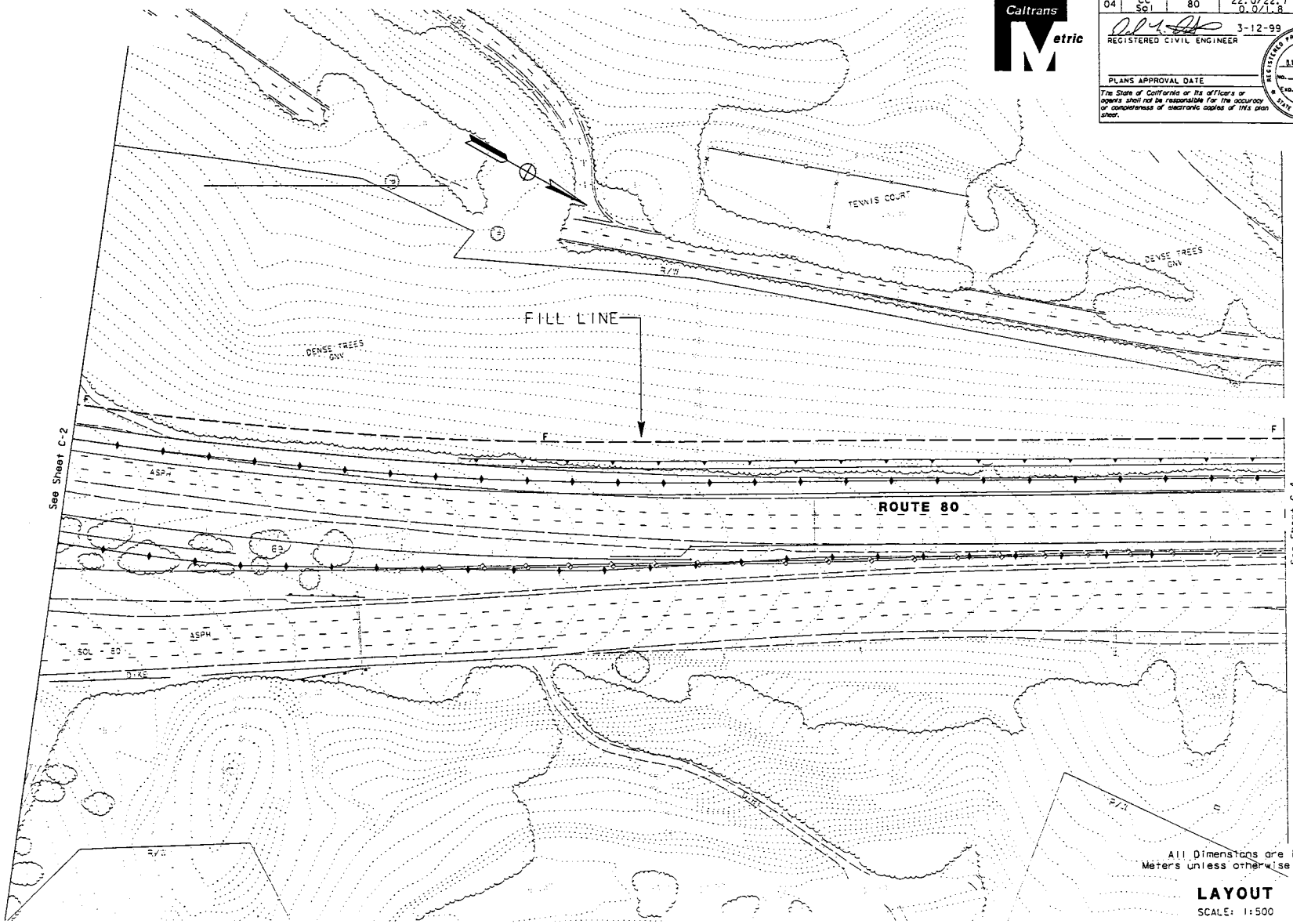
CU 04252

EA 013011



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
04	CC SCl	80	22.0/22.7 0.0/1.8		

REGISTERED CIVIL ENGINEER 3-12-99

PLANS APPROVAL DATE

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R.N. Dickinson No. 50815 Exp. 9-30-01 CIVIL STATE OF CALIFORNIA REGISTERED PROFESSIONAL ENGINEER

Caltrans Metric

All Dimensions are in Meters unless otherwise shown

LAYOUT

SCALE: 1:500

C-3

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

PROJECT ENGINEER

CALCULATED/ DESIGNED BY

CHECKED BY

DATE	REVISED BY	DATE REVISED

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

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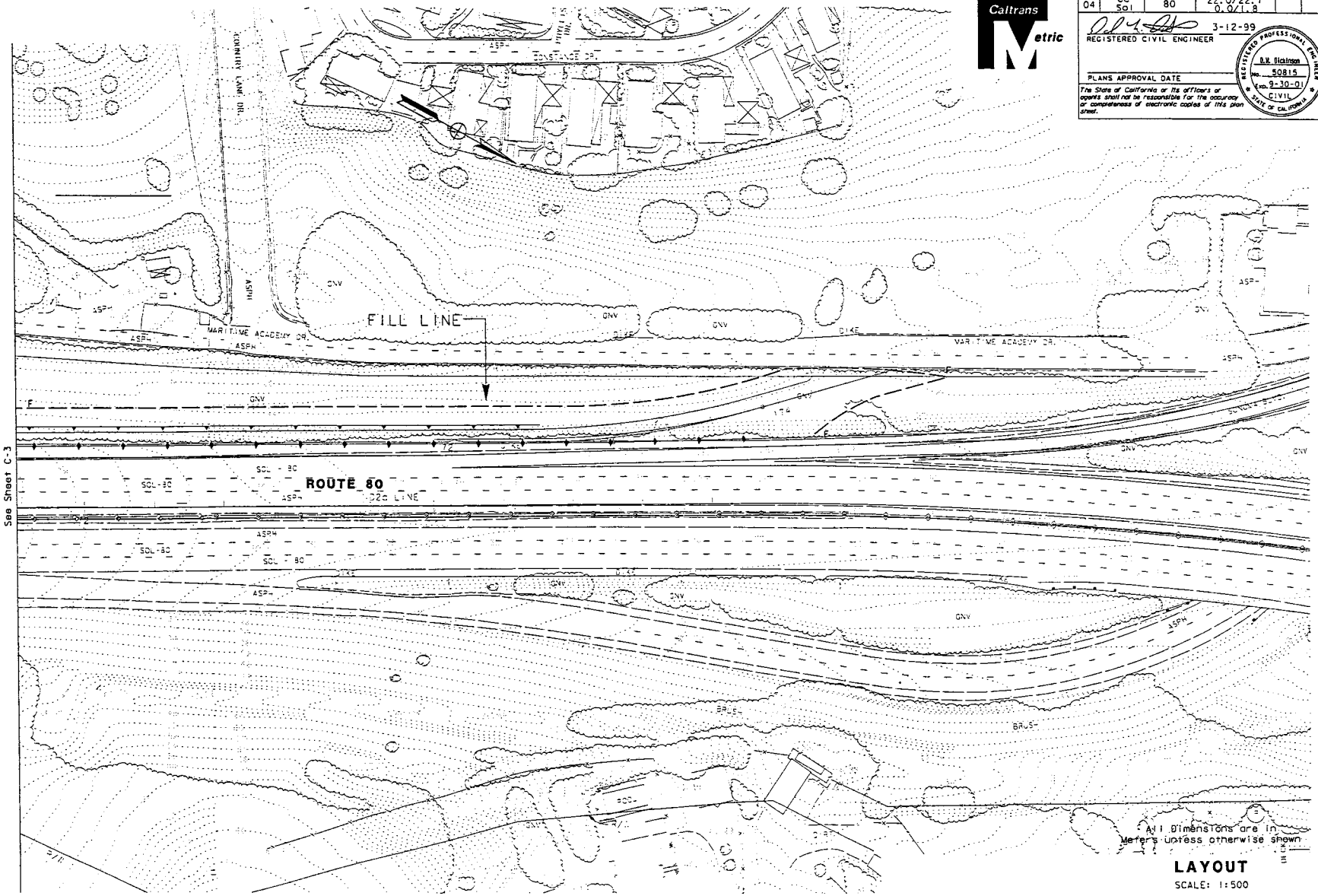
DGN FILE => $REQUEST

CU 04252

EA 013011

LAST REVISION 03-13-99 DATE PLOTTED => $DATE TIME PLOTTED => $TIME



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO	TOTAL SHEETS
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Caltrans Metric

3-12-99
REGISTERED CIVIL ENGINEER

REGISTERED PROFESSIONAL ENGINEER — D.W. Dickinson — No. 50815 — EXP. 9-30-01 — CIVIL — STATE OF CALIFORNIA

PLANS APPROVAL DATE

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STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
Caltrans

PROJECT ENGINEER

CALCULATED/ DESIGNED BY

CHECKED BY

DATE	REVISED BY
	DATE REVISED

C-4

FOR REDUCED PLANS ORIGINAL SCALE IS IN MILLIMETERS 0 20 40 60 80

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OGN FILE => $REQUEST

CU 04252

EA 013011

DATE PLOTTED => $DATE
TIME PLOTTED => $TIME

Last Revision 03-13-99

ATTACHMENT D

List of Pollutants

List of Construction Site Pollutants			
Category	**Product**	**Pollutants**	**BMPs**
Adhesives	Adhesives, glues resins, epoxy Caulks, sealers, etc. Coal tars	Phenolics, formaldehyde Phenolics, formaldehyde Asbestos, phenolics, formaldehyde Benzene phenols, naphthalene	Material controls Material storage Material delivery
Cleaners	Polishes etching agents Ammonia, lye, soda Bleaching agents Chromate salts	Metals Metals Acidity/Alkalinity Acidity/Alkalinity Chromium	Material controls Material storage Material delivery
Plumbing	Solder Pipe fitting Galvanized Metal Electric Wiring	Lead, copper, zinc, tin Copper Zinc Copper, lead	Material controls Material storage Material delivery
Wood	Sawdust Particle Treated woods	BOD Formaldehyde Copper, creosote	Material controls Material storage Material delivery
Masonry/ Concrete	Dusts Pigments Curing Compounds Glazing Cleaning	Acidity, sediments Metals Asbestos Acidity	Concrete Waste Management
Yard Operations	Vehicle Maintenance Gasoline, oils, additives Marking paints Grading Portable toilets Fire Hazard Wash waters	Oils grease, coolants Benzene, oil, grease, and derivative Vinyl chloride, metals Erosion, sediments BOD, disinfectants Sodium arsenite, dinitro Oil, grease	Equipment fueling Equipment maint. Equipment cleaning Material controls Material delivery Material storage
Dewatering	Stockpile Dewatering	Sediment, Toxic pollutants	Non-Storm Section
Landscaping	Excavation, tilling, grading Solid wastes Exposing natural lime Soil additives Revegetation	Erosion sediments BOD, trees & shrubs cuttings Acidity/Alkalinity, metal Aluminum sulfate, sulfur Fertilizers	Material storage Material delivery Material controls
Material Storage	Waste storage Hazardous waste Raw material piles	Spills, leaks, discharge Spills, leaks, discharge Dust, sediments, discharge	Haz. Waste Management Material controls Material delivery Material storage

ATTACHMENT E

Computation Sheet
For
Existing and Developed Runoff Coefficients

Total Area of Site = 171965 m^2

Existing Runoff Coefficients

Existing Impervious Area (Paved) = 88157 m^2

Pavement Runoff Coefficient, C_P = 0.95

88157 x 0.95 = 83749

Existing Pervious Area (Unpaved) = 83808 m^2

Runoff Coefficient, C = 0.4

83808 x 0.68 = 56989

Sum: 83749 + 56989 = 140738

Divide: 140738/171965 (Total Area) = 0.68

Existing Runoff Coefficient = 0.68

Developed Runoff Coefficients

Proposed Impervious Area (Paved) = 100036 m^2

Pavement Runoff Coefficient, C_P = 0.95

100036 x 0.95 = 95034

Proposed Pervious Area (Unpaved) = 71929 m^2

Runoff Coefficient, C = 0.4

71929 x 0.4 = 28771

Sum: 95034 + 28771 = 123805

Divide: 123805/171965 (Total Area) = 0.72

Developed Runoff Coefficient = 0.72

ATTACHMENT F

Non-Storm Water Spill Log

District 4, Route 80
Contract No. 04-013014

This log shall be kept as a self-record of any significant spills that have been released into the storm water system.

DATE	N0N-STORM WATER MATERIAL	ESTIMATED QUANTITY	OBSERVED BY

COMMENTS: _____

_____

_____

_____

_____

ATTACHMENT G

Maintenance, Inspection, and Repair of Controls

Controls	Inspection	Maintenance/Repair
Stabilization of Graded Areas	Monthly, before and after storms, and 2-hour intervals during working hours.	Regrade and reapply seed, straw, and tack. Cover with plastic if necessary.
Silt Fences	Weekly, before and after storms.	Replace torn sections, remove accumulated debris, re-key bottom of fences.
Straw Bales	Weekly, before and after storms.	Replace straw bales as necessary.
Diversion Berms	Monthly, before and after storms.	Replace straw bales as necessary. Reshape earth berms and compact.
Silt basins	Monthly, before and after storms, and 2-hour intervals during working hours coinciding with storms.	Remove sediment as necessary, pump and discharge accumulated water. Remove impediments to flows.
Inlet Protections	Weekly, before and after storms.	Remove accumulated debris and repair bales/fences as required.
Covered Areas	Monthly, before and after storms.	Cover-up any exposed areas.
Flared End Protections	Monthly, before and after storms.	Remove silt in pipes. Reinstall sandbags as necessary.
Construction Entrances	Weekly, before and after storms.	Remove excessive soil accumulation. Replace gravel as necessary. Sweep surrounding areas.
Concrete Wash-outs	Weekly, before and after storms, before and after pours.	Remove accumulated debris. Replace straw bales and replace lining as necessary.
Waste Containers	Weekly and before storms.	Refuse Contractor to pick-up. Remove unacceptable materials. Segregate waste. Repair leaks. Replace dumpsters as necessary
Vehicle Storage Areas	Weekly and before storms.	Remove leaked material. Replace drip pans. Restock spill materials.

ATTACHMENT H

Sample SWPPP Notification to Subcontractor

[Date]

[Subcontractor's Name]
[Company]
[Address]
[City, State]

Dear [Subcontractor's Name]:

Please be advised that the California State Water Resources Control Board and San Francisco Bay Regional Water Quality Control Board have issued a National Pollutant Discharge Elimination System (NPDES) Permit for this project.

In short, the purpose of this system is to eliminate pollutants entering the storm drain systems and, eventually, our lakes, streams, and oceans. Some pollutants include oil, grease, trash, sediment, asphaltic emulsions, and cement wastes.

[Contractor's Name] has developed a Storm Water Pollution Prevention Plan (SWPPP) in accordance with the State requirements.

You, as a subcontractor, are directed to comply with the SWPPP and the NPDES permit for any work done on this site.

Any person or group who violates any condition of the NPDES permit may be subject to substantial penalties in accordance with Section 309 of the Clean Water Act and the Porter-Cologne Water Quality Control Act. You are encouraged to advise each of your employees working on this project of the pollution prevention plan. Periodic memorandums with paychecks are often effective (see attached sample memorandum).

A copy of the NPDES Permit and SWPPP developed for this site is available for your review at the construction office.

Please call if you have any questions.

Sincerely,

_____
General Contractor

ATTACHMENT H

Memorandum to Employees

(May Be Periodically Attached to Paychecks)

TO ALL EMPLOYEES:

[Contractor's Name] supports the protection of our environment and has developed a program for this project to reduce pollutants from entering local waterways.

You will be expected to do your part to comply with this program while you are working on this project by:

- Disposing of trash, rubbish, and construction debris properly.
- Reporting, to the general Contractor, leaky vehicles or equipment and other pollution sources.
- Covering materials which may be exposed to the rain
- Encouraging your co-workers to do the same.

Remember, you and your family are the ones who drink, shower, fish, and enjoy recreation that is provided by these waters.

A copy of the Storm Water Pollution Prevention Plan developed for this project is available for your review at the construction office.

ATTACHMENT H

SUBCONTRACTOR NOTIFICATION LOG

Project Name: _____ Caltrans Contract No.: _____

SUBCONTRACTOR NAME	RESPONSIBILITIES	CONTACT NAME	ADDRESS	PHONE NUMBER	PAGER/FIELD PHONE NUMBER	DATE NOTIFICATION LETTER SENT

ATTACHMENT I

Contractor Inspection Checklist and Log

Storm Water Pollution Inspection Sheet

Project: New Carquinez Bridge and North Approach (EA 013014) **Date:** _____

Contractor: _____ **Time:** _____

Contractor's Inspector: _____

Timing of Inspection (check one):

_____ Before a forecasted storm

_____ After a storm event

_____ Daily inspection during extended storm event

_____ Weekly inspection

Write "Yes," "No," or "N/A" (not applicable) in the blank provided for each question.

_____ 1. Has there been an absence of rain since the last inspection?

_____ 2. Are all silt fences and fiber rolls functional and placed in accordance with the details?

_____ 3. Are silt fences free of accumulated litter and significant sediment?

_____ 4. Are all material handling and storage areas clean and free of spills, leaks, or other deleterious materials?

_____ 5. Are all equipment storage and maintenance areas reasonably clean and free of spills, leaks, or any other deleterious materials?

_____ 6. Are all materials and equipment properly covered?

_____ 7. Are concrete washouts functional for containing and receiving concrete wastes? Are concrete residues prevented from becoming present within the drainage systems?

_____ 8. Are material and vehicle storage areas prevented from impacting storm water runoff or coming into contact with rising surface waters?

_____ 9. Are all locations of temporary stockpiles, including soil, hazardous waste, and construction materials in approved areas?

_____ 10. Are soil storage locations, including temporary hazardous waste stockpiles, properly protected from run-on, run-off, and winds?

_____ 11. Are all seeded areas properly maintained?

_____ 12. Are any un-vegetated areas free of erosion or capable of sediment transport?

_____ 13. Are waste management receptacles free of leaks?

_____ 14. Are the contents of the waste management receptacles properly protected from coming into contact with storm water or from coming dislodged by winds?

_____ 15. Are waste management receptacles filled at or beyond capacity?

_____ 16. Are all discharge points free of any noticeable pollutant discharges?

_____ 17. Are all discharge points free of any significant erosion or sediment transport?

_____ 18. Are all BMPs shown on the Water Pollution Control Drawings (WPCDs) installed in the proper location and according to the details for the plan?

_____ 19. Do the WPCDs reflect current site conditions?

_____ 20. Are paved areas free of tracked sediment or other particulate matter?

_____ 21. Is sediment, debris, or mud being cleaned from public roads at intersections with site access roads?

_____ 22. Are all slopes free of significant erosion?

_____ 23. Are all structural control practices in good repair and maintained in functional condition?

_____ 24. Are there any other potential water pollution control concerns at the site?

If you answered "No" to any of the previous questions, describe the corrective actions to be taken and when the corrective actions are to be completed. Identify each response numerically, in accordance with the number designated for the question to be answered. Use additional pages as necessary.

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Excavation/Pile/Cofferdam Dewatering Inspection Sheet

Project: New Carquinez Bridge and North Approach (EA 013014) **Date:** _____

Contractor: _____ **Time:** _____

Contractor's Inspector: _____

Timing of Inspection (check one):

_____ One hour prior to inspection

_____ During first ten minutes of discharge

_____ Every four hours during discharge

_____ Upon cessation of discharge

1. Describe color and turbidity:
   Discharge: _____ Turbidity Measurement (NTU): _____
   Receiving water: _____ Turbidity Measurement (NTU): _____
2. Suspended material present? If yes, describe:
   Discharge: _____ yes _____ no. Description: _____
   _____
3. Size of affected area in receiving water (if applicable): _____
4. Water fowl or aquatic wildlife present? If yes, describe: _____
   _____
5. Wind direction and velocity: _____
6. Tidal conditions: _____
7. Weather conditions: _____
8. Photographs of inspection provided? _____ yes _____ no
9. If suspended material is present, cease discharge and describe corrective actions undertaken: _____
   _____
   _____
   _____
   _____

Storm Water Pollution Inspection Log

Project: New Carquinez Bridge and North Approach

Contractor: _____ **Caltrans Contract No.: 04-013014**

Date	Inspector	Comments

ATTACHMENT J

Annual Contractor Certification of Compliance
(To Be Completed Prior to July 1 of Each Calendar Year)

[Date]

To: Caltrans Resident Engineer

Site: District 4, Route 80
04-CC,SOL-80-22.0/22.7,0.0/1.8
Contract No. 04-013014

Order No: 99-06-DWQ
NPDES Permit No.: CAS000002

The undersigned, being a person duly authorized by the owner of the site to make this certification and used upon the site inspections conducted at the site during the prior twelve-month period in accordance with the Storm Water Pollution Prevention Plan prepared for this site and construction activity covered by the Regional Permit, does hereby certify that the construction activity is in compliance with the requirements of the State Water Resources Control Board, National Pollutant Discharge Elimination System General Permit (Construction Activity), the Regional Permit, and the Storm Water Pollution Prevention Plan (SWPPP) prepared for this project.

_____ _____
General Contractor's Signature Date

_____ (____)_____
Name and Title Phone Number

ATTACHMENT K

Notice of Non-Compliance

[Date]

To: Caltrans Resident Engineer

Site: District 4, Route 80
04-CC,SOL-22.0/22.7,0.0/1.8
Contract No. 04-013014

Order No: 99-06-DWQ
NPDES Permit No.: CAS000002

In accordance with the State Water Resources Control Board, National Pollutant Discharge Elimination System General permit for Discharges of Storm Water Runoff Associated with Construction Activity, notice is hereby given that the following event(s) of noncompliance with the general permit or the Storm Water Pollution Prevention Plan for the subject site location as described above occurred within forty-eight (48) hours prior to the date of the notice:

[describe event(s) of noncompliance]

The following actions are necessary to achieve compliance and shall be implemented by the dates stated below subject to modifications by your office:

Actions to be Taken	Commencement Date	Completion Date
[list]		

Please notify the undersigned should you need any further information concerning this notice or desire to modify the above schedule.

_____ _____
General Contractor's Signature Date

_____ (____)_____
Name and Title Phone Number

ATTACHMENT L

Trained Contractor Personnel

Prior to project set up, the Contractor's personnel will participate in a storm water training workshop. The workshop will cover basic storm water information, the requirements of the federal permit and the SWPPP. The workshop will focus on implementation, inspection, and maintenance of storm water controls.

The following is a list of the Contractor's personnel who have taken the course:

ATTACHMENT M

Water Pollution Control Schedule of Values

Contract No. 04-013014

UNIT DESCRIPTION	UNIT	QUANTITY	VALUE	AMOUNT
Scheduling	LS			
Geotextiles, Mats/Plastic Covers & Erosion Control Blankets	LS			
Dewatering (Excavation)	LS			
Structure Construction and Painting	LS			
Material Delivery and Storage	LS			
Material Use	LS			
Spill Prevention and Control	LS			
Solid Waste Management	LS			
Hazardous Waste Management	LS			
Concrete Waste Management	LS			
Sanitary/Septic Waste Management	LS			
Vehicle and Equipment Cleaning	LS			
Vehicle and Equipment Fueling	LS			
Vehicle Equipment Maintenance	LS			
Illicit Discharge/Illegal Dumping Report	LS			
Liquid Waste Management	LS			

TOTAL _____